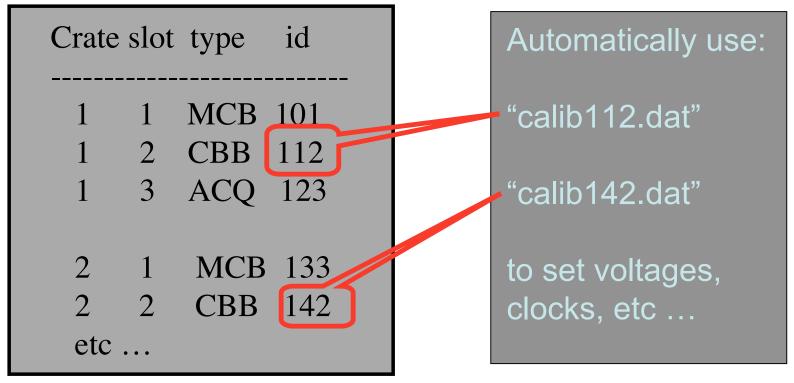
Discussion of Monsoon Integration for DES

R.Kessler Monsoon Software Review Jan 23, 2006

- * Now that there is some experience with the Monsoon system, need to define integration with DES project.
- * Hopefully today's discussion will achieve this goal ... and attract volunteers.
- * To begin, here is a short presentation based on (and thanks to) conversations with many of you.

Need Easy-to-Use Hardware Config File



- Only one text file to manage in the lab (after some dirty work to prepare the calib### files)
- ❖ Board swap => change id ... that's it!
- Initialization reads id from each board to verify
- Could be part of public Monsoon product?

Need DES-Specific FP Configuration

GROUP1:

CCD: LBL1 LBL2 LBL3 voltages, clocks, delays Cr 1 Slot 3 chan 0 1 2

GROUP2:

CCD: LBL4 LBL5 LBL6 voltages, clocks, delays Cr 1 Slot 3 chan 3 4 5

GROUP3:

CCD: LBL8 voltages, clocks, delays Cr 1 Slot 3 chan 6

etc ...

Store many configurations In a data base

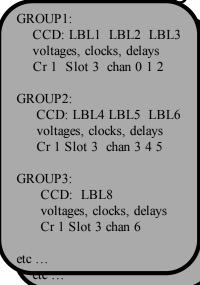
Needs a lot more thought!

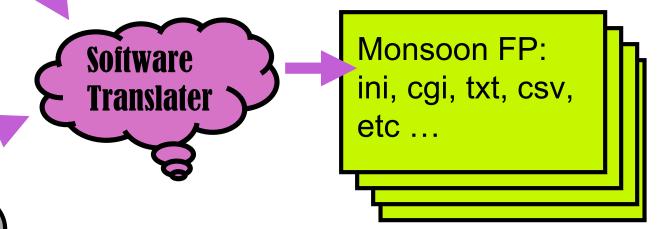
DES TRANSLATOR

Hardware Config.

| Crate | slot | type | id |
|-------------|-------------|-------------------|-----|
| 1 1 1 | 1 2 3 | MCB CBB ACQ | 112 |
| 2 2 | 1 2 | MCB CBB | 133 |
| etc | | | |

DES-Config





- Only 1 hardware config
- Each DES config gets translated into a Monsoon FP
- SISPI selects an existing Monsoon FP
- Can take data without understanding how Monsoon works.